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BAY





Introduction

 A top priority recently revealed among resource managers and researchers was improved access to digital images for historic and current seagrass extent.

 To accomplish this goal, an interagency team was formed to produce a Web site that will provide access to multiple years of aerial photography for the Tampa Bay region.





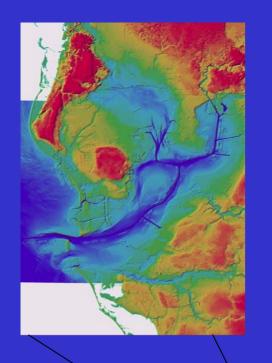


















Web-based application to access and analyze digital files of aerial photography and maps of the Tampa Bay region.

Project Partners





-- facilitate and provide project funds



--collect aerial imagery, generate maps of seagrass distributions every two years



--compile, scan and rectify imagery

FLORIDA MARINE RESEARCH INSTITUTE

--compress, mosaic, prepare data for serving via ArcIMS

Data Sources

Aerial Photography—SWFWMD, USGS

- 1926 partial coverage, black and white
- 1947–1952
- **1999**
- > 2002

Seagrass Distributions—SWFWMD

- **1996**
- > 1999
- ≥ 2001

Ancillary Data—FMRI

- Watershed Basins
- Boundaries—counties, shorelines, roads, etc.
- NOAA Nautical chart

Viewing Requirement

- Sun's Java 1.3 Runtime Environment is required
- One time download
- Approximately 5.5 MB
- Users automatically prompted to download the recommended version, JRE 1.3.1_02

Software Requirements



ArcIMS enables users to display, query, and analyze Internet GIS data sources in an easy-to-use Web browser.

Configuration: IIS 5.0 Web Server and Tomcat 4.0 Servlet Engine



Maplicity™ is a lightweight Java™ applet designed to work with ArcIMS™ Image Services. It provides a feature rich familiar user interface for geospatial analysis and image visualization over the Internet

Hardware Requirements

- Lots of Storage 1.5 Terabytes
- Very fast file access multiple 10,000 RPM SCSI devices
- Mega RAM 8 GB
- Dedicated for IMS applications

Methods

- GIS data layers were optimized by clipping, reducing unnecessary fields, and using a common projection
- Maximum and minimum scale ranges were employed to increase rendering speed.
- Individual images were mosaiced and compressed to reduce file sizes.

Project Description

Imagery

Metadata

How to Use This Site

Contact Us

Links to Participating Agencies



Estuary

Imagery

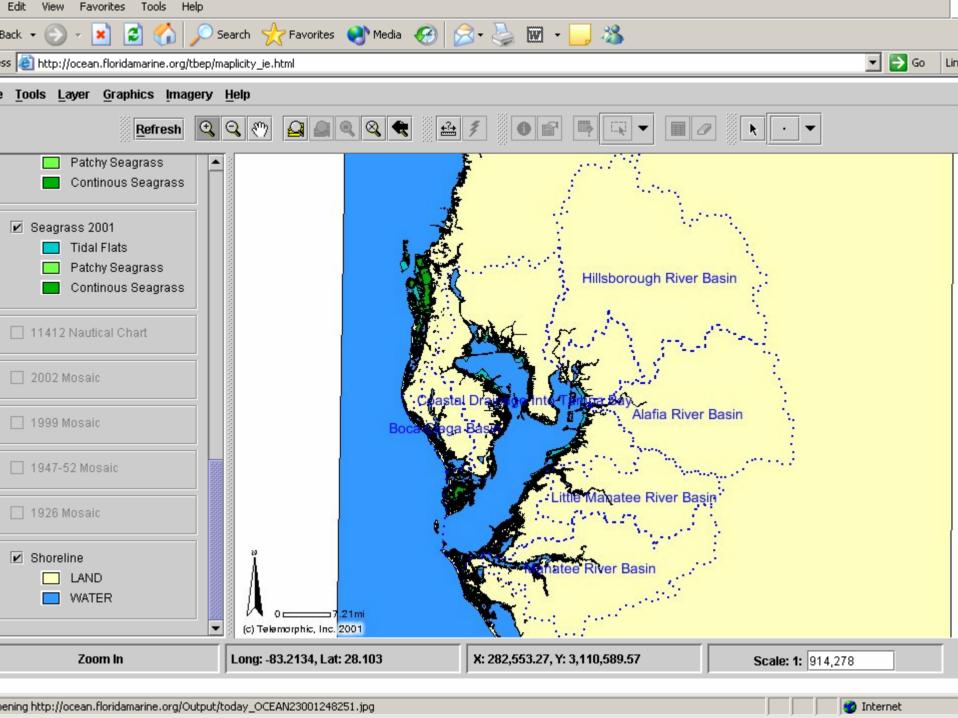
System

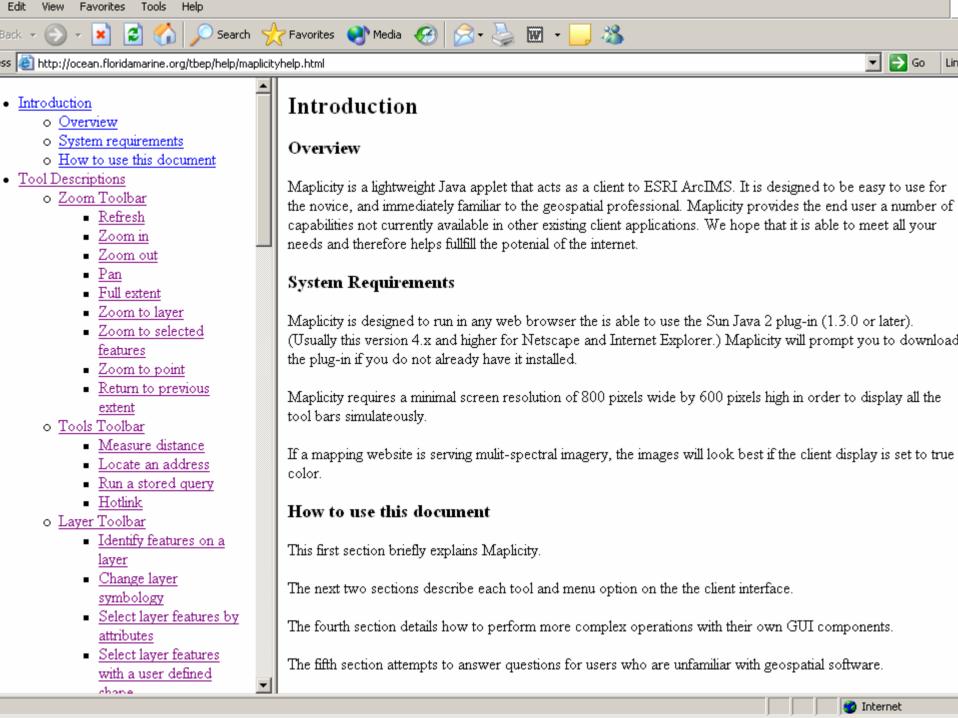






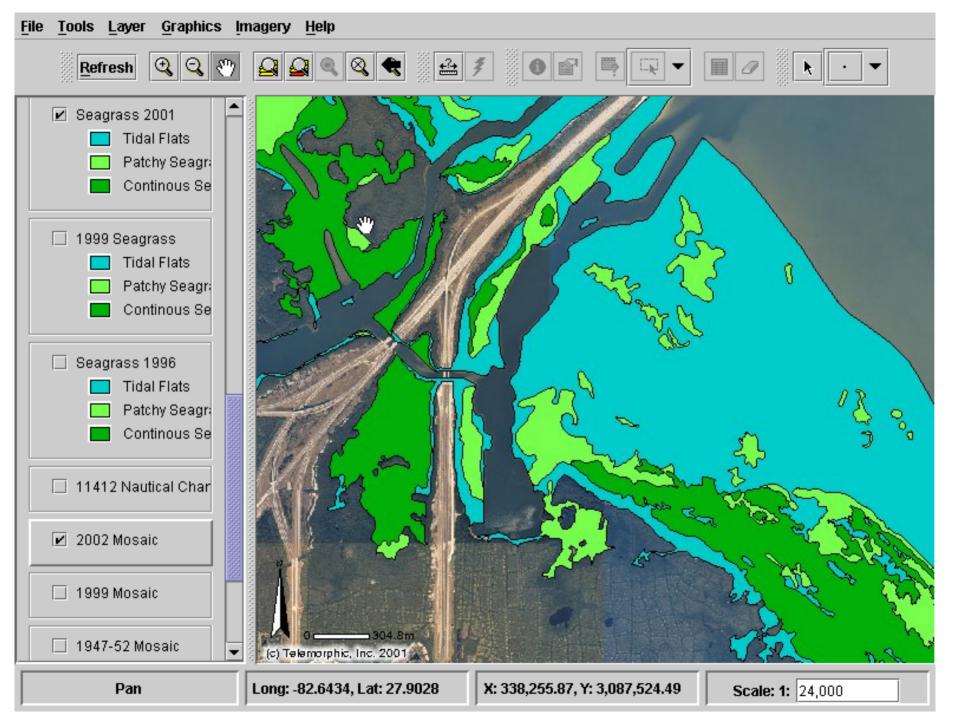


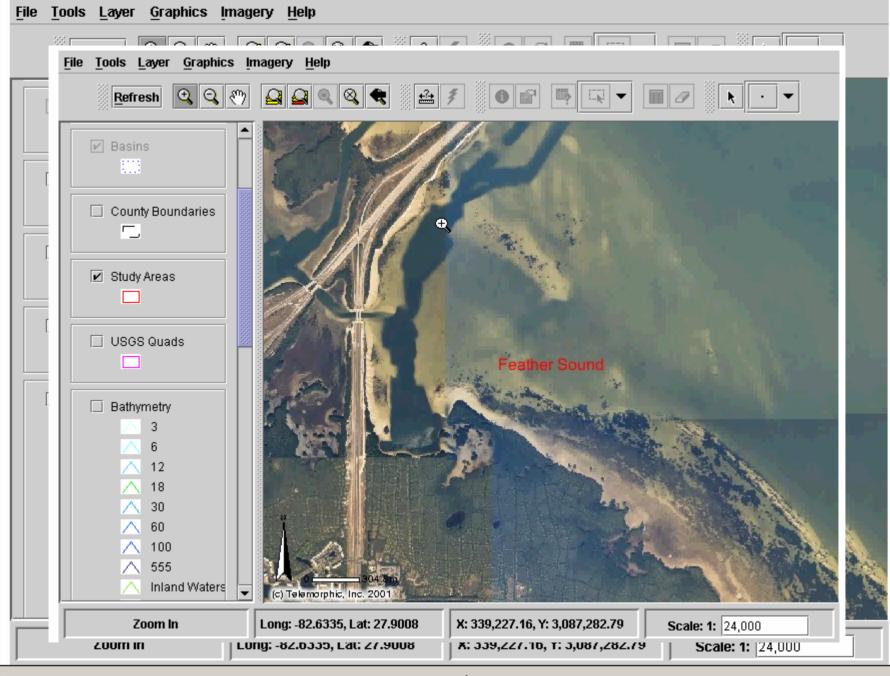


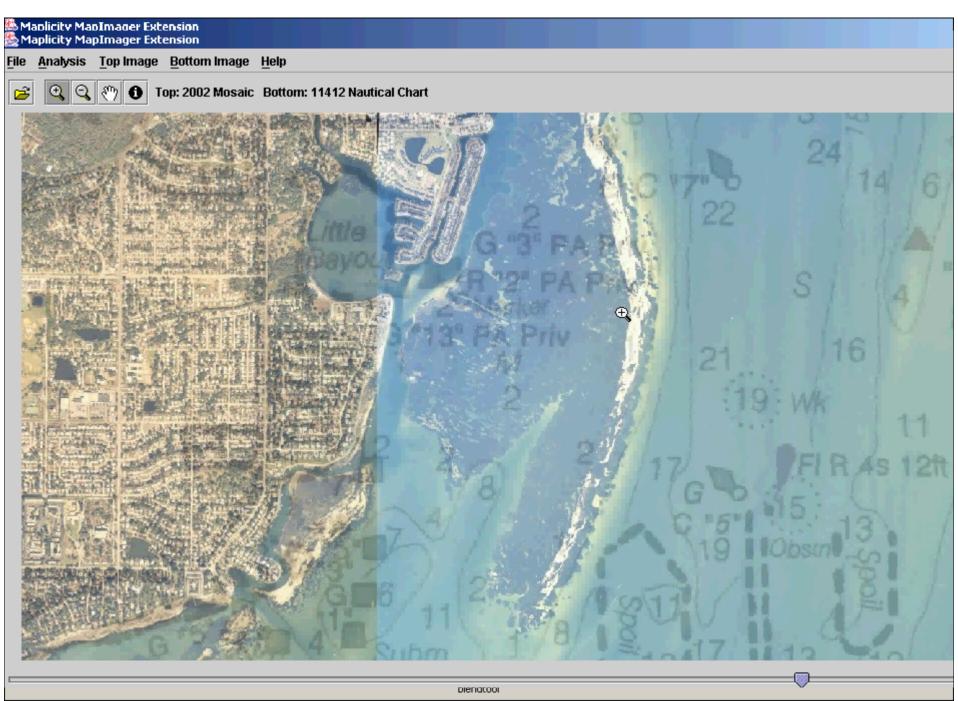


Functionality

- GIS queries, identify
- Editing- move data layers for legend display, alter symbology or label properties
- Zoom to point of interest
- Image visualization tools
- Download capabilities for vector and raster data







Future Improvements

- Acquire and add additional imagery (additional years and scales).
- Make corrections to images.
- Edit according to User requests.

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Internet Access

http://ocean.floridamarine.org/tbep

 Also may enter through Web site links of the Tampa Bay Estuary Program http://tbep.org

and the USGS Tampa Bay Study http://gulfsci.usgs.gov/tampabay/index.html